



WASHOE COUNTY

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CM/ACM KS
Finance DN
DA _____
Risk Mgt N/A
Clerk DA

STAFF REPORT

BOARD MEETING DATE: October 14, 2014

DATE: September 19, 2014
TO: Board of County Commissioners
FROM: Chris Benedict, Remediation District Program Manager, Community Services Department, 954-4642, cbenedict@washoecounty.us
THROUGH: Dwayne Smith, P.E., Division Director, Engineering and Capital Projects Community Services Department, 328-2043, desmith@washoecounty.us
SUBJECT: Adopt a Resolution to donate one (1) surplus groundwater monitoring well (CTM40S) from the Remediation District Program of the Community Services Department to the United States Geological Survey in accordance with NRS 244.1505, Section 2(a); and providing other matters properly related thereto. (All Commission Districts.)

SUMMARY

The Board of County Commissioners (Board) administers the Central Truckee Meadows Remediation District (CTMRD) program through the Community Services Department (CSD) in accordance with NRS 540A.250-285 and Washoe County Ordinance 1000.

The CTMRD was created in 1997 to address the widespread tetrachloroethene (PCE) contamination of groundwater used to meet municipal water demands in the greater Reno/Sparks area. This condition was certified to exist by the District Health Officer and the Nevada Division of Environmental Protection (NDEP) Administrator.

The CTMRD program has installed and maintains a number of groundwater monitoring wells in the course of addressing this PCE contamination. One of these wells (CTM40S) is located in an area that is no longer an area of interest or concern to the CTMRD program. CTM40S is therefore considered to no longer have any value to the County and is considered surplus. However, CTM40S has also been cooperatively utilized by the USGS since 2002. If CTM40S is donated to the United States Geological Survey (USGS) in accordance with NRS 244.1505, the USGS will continue to use CTM40S and will assume any and all responsibility for CTM40S. This will allow another government agency to continue to provide public benefit through the utilization of an asset that no longer has any value to the County.

Washoe County Strategic Objective supported by this item: Sustainability of our financial, social and natural resources.

PREVIOUS ACTION

There has been no previous action by the Board to donate County property funded through the CTMRD program to another government agency in accordance with NRS 244.1505.

AGENDA ITEM # 1051

BACKGROUND

In 1997, in accordance with NRS 540A.250(1), the Board created, through the adoption of Ordinance 1000, District No. 24 (Groundwater Remediation); a.k.a. the CTMRD. The CTMRD was created to address the widespread PCE contamination of groundwater in the central Truckee Meadows that was certified to exist by the District Health Officer and the NDEP Administrator.

A monitoring well is a physical feature that has been constructed in place and which cannot be moved or relocated. In accordance with State and local regulations the County is required to abandon (essentially filling the well with concrete and eliminating any conduit between the land surface and the aquifer) any monitoring well that is no longer being used. Regulations require that all wells be abandoned by a state licensed well driller. Estimated costs to the County for abandoning CTM40S are \$2,500.

However, CTM40S has also been cooperatively utilized by the USGS as part of their National Water Quality Assessment Program (NAWQA) urban groundwater monitoring network since 2002. If CTM40S is donated to the USGS in accordance with NRS 244.1505, the USGS will continue to use CTM40S as part of their NAWQA network and will assume any and all responsibility for the maintenance and eventual abandonment of CTM40S. This will allow another government agency to provide continued public benefit through the utilization of an asset that no longer has any value to the County.

FISCAL IMPACT

The well recommended to be donated has no present value to the County as an asset. If the County were to retain ownership of this well, the County would be responsible for abandoning it in accordance with existing State and local regulations. The estimated costs for abandonment are \$2,500, and sufficient budget authority for the expense exists in fund 266, cost center 206302, account 710205. If this well is donated to the USGS as recommended, there is no cost to the County and the USGS will assume full responsibility for well maintenance, abandonment, and any associated costs.

RECOMMENDATION

It is recommended that the Board of County Commissioners adopt a resolution to donate one (1) surplus groundwater monitoring well from the Remediation District Program of the Community Services Department to the United States Geological Survey in accordance with NRS 244.1505, Section 2(a); and providing other matters properly related thereto.

POSSIBLE MOTION

Should the Board agree with the staff recommendation, a possible motion would be: "Move to adopt a resolution to donate one (1) surplus groundwater monitoring well from the Remediation District Program of the Community Services Department to the United States Geological Survey in accordance with NRS 244.1505, Section 2(a); and providing other matters properly related thereto."

Exhibit 1 - Resolution

Exhibit 2 - Map showing the location of monitoring well CTM40S

Exhibit 3 - Well log and construction diagram for monitoring well CTM40S

Exhibit 4 - Letter from the USGS to the State Engineer requesting transfer of ownership of CTM40S

Exhibit 1

RESOLUTION

A RESOLUTION TO DONATE ONE (1) SURPLUS GROUNDWATER MONITORING WELL (CTM40S) FROM THE REMEDIATION DISTRICT PROGRAM OF THE COMMUNITY SERVICES DEPARTMENT TO THE UNITED STATES GEOLOGICAL SURVEY IN ACCORDANCE WITH NRS 244.1505, SECTION 2(A); AND PROVIDING OTHER MATTERS PROPERLY RELATED THERETO.

WHEREAS, the Central Truckee Meadows Remediation District (CTMRD) Program was established to prevent, protect, and mitigate tetrachloroethene (PCE) contamination of groundwater in the central Truckee Meadows; and

WHEREAS, the CTMRD Program is disposing of one monitoring well (CTM40S) which is surplus to its needs; and

WHEREAS, the United States Geological Survey (USGS) is in need of CTM40S for continued use in their National Water Quality Assessment Program (NAWQA) urban groundwater monitoring network;

NOW, THEREFORE, BE IT RESOLVED, by the Board of County Commissioners of the County of Washoe in the State of Nevada, that we support the needs of the USGS and declare:

Section 1. NRS 244.1505, Section 2(a) empowers the Board of County Commissioners to donate to other government entities certain commodities, supplies, materials and equipment that the Board determines to have reached the end of their useful life.

Section 2. The above mentioned surplus used Washoe County asset will be donated in "as is" condition to the USGS.

Section 3. This Resolution shall be effective on passage and approval by the Board of County Commissioners.

Section 4. The County Clerk is hereby directed to distribute copies of this Resolution to the Remediation District Program within the Community Services Department.

ADOPTED this _____ day of _____, 2014.

David Humke, Chairman
Board of County Commissioners

ATTEST:

County Clerk

Exhibit 2

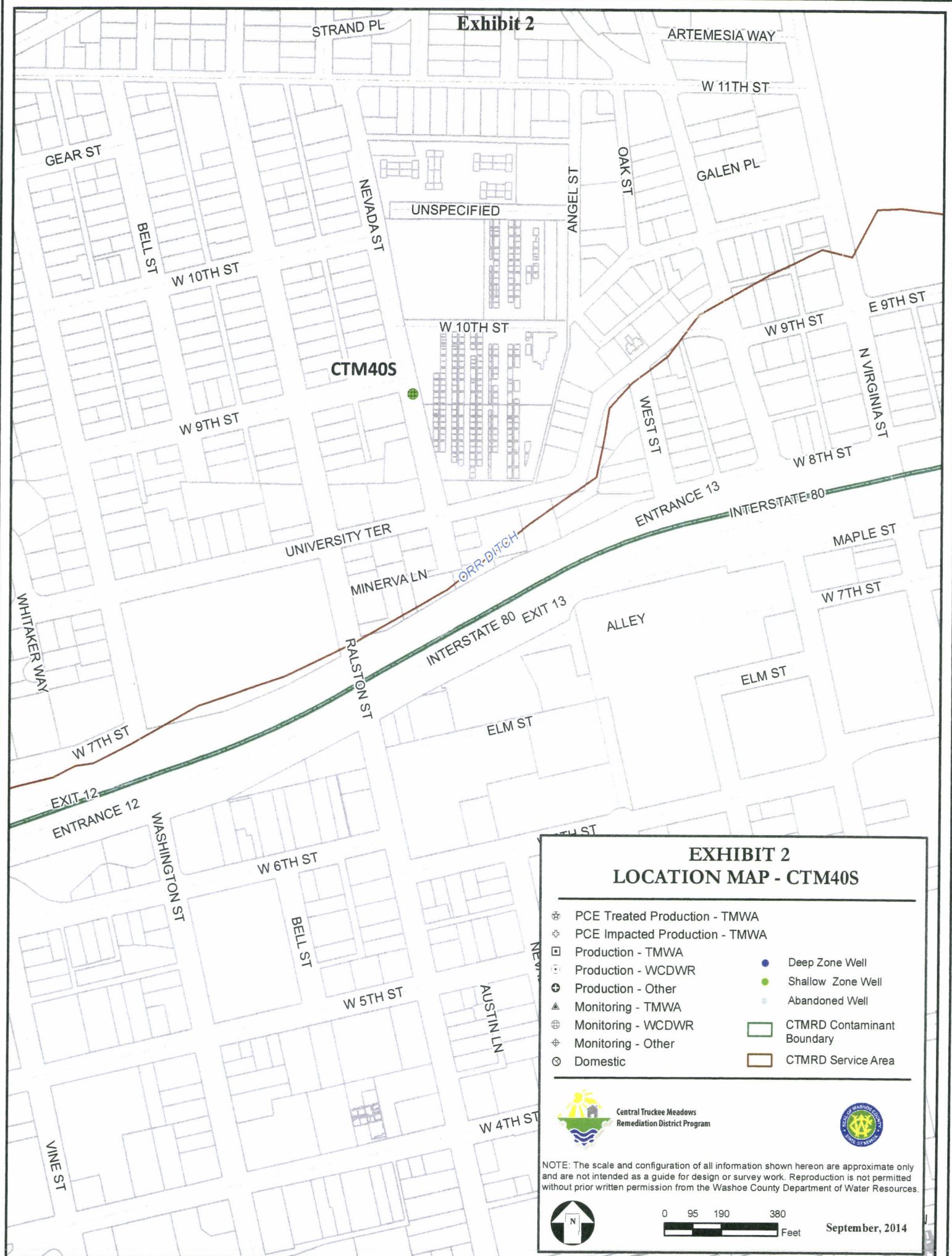


Exhibit 3

CAMP DRESSER & McKEE

CDM

7025 Longley Lane, Ste 20
Reno, NV 89511

Sheet 1 of 5

MONITORING WELL DETAIL CTM-40S

Client: Washoe County Dept. of Water Resources

Project Name: Central Truckee Meadows Remediation Dist.

Project Location: Reno, Nevada

Project Number: 8432-30734

Drilling Contractor: Boart Longyear

Casing Elevation (ft.): 4593.77

Drilling Method/Rig: Sonic/Roto-Sonic 150

Total Depth (ft.): 155

Drillers: Nathan Jackson

Depth to Initial Water Level (ft. BGS): 124

Drilling Date: Start: 6/4/01 End: 6/5/01

Development Method: Pumping

Borehole Coordinates:

Field Screening Instrument: PID

N 14,867,974.11 E 2,275,781.44

Logged By: J. Benedict/E. Evans

Development Date: Start 6/7/01 End 6/7/01

Top of Riser Elevation (ft.):

Sample Type	Sample Identification	Field Instrument Reading (ppm)	Stratum Designation	Material Description	Graphic Log	Elev. Depth (ft.)	Well Construction Detail
						4593.8	Protective Casing
			ML	Surface: Asphalt		0	Ground Surface
				SANDY SILT: Light Gray to Tan Gray, Well Sorted, Rounded, Fine Grained Sand, Increased Silt Content Starting at 10 feet.		4588.8	Morrison Flush-Mount Traffic Vault, 12-inch diam.
SO		1.5				5	Cement Seal.
SO		1.5				10	Sch. 40 PVC, 2-inch diam. Blank Casing
			CL	SILTY CLAY: Brown, Dry, Hard, Friable.		4583.8	
SO		1.5	GC	CLAYEY and SILTY GRAVEL: Poorly Sorted, Cemented to Friable, Brown to Gray, Hard, Dry.		15	
						4578.8	
						4573.8	

EXPLANATION OF ABBREVIATIONS

DRILLING METHODS:
HSA - Hollow Stem Auger
SSA - Solid Stem Auger
HA - Hand Auger
AR - Air Rotary
DTR - Dual Tube Rotary
FR - Foam Rotary
MR - Mud Rotary
RC - Reverse Circulation
CT - Cable Tool
JET - Jetting
D - Driving
DTC - Drill Through Casing

SAMPLING TYPES:
SG - Soil Gas
SO - Soil from Core
GW - Groundwater Sample
NX - 2.1" Rock Core
GP - Geoprobe
HP - Hydro Punch
SS - Split Spoon
ST - Shelby Tube
WS - Wash Sample
OTHER:
AGS - Above Ground Surface

REMARKS

Reviewed by:

Date:

CTM MW CTM2001.GPJ CDM CORP GDT 9/7/01

CAMP DRESSER & McKEE

CDM7025 Longley Lane, Ste 20
Reno, NV 89511**MONITORING
WELL DETAIL**
CTM-40S

Sheet 2 of 5

Client: Washoe County Dept. of Water Resources

Project Name: Central Truckee Meadows Remediation Dis.

Project Location: Reno, Nevada

Project Number: 8432-30734

Sample Type	Sample Identification	Field Instrument Reading (ppm)	Stratum Designation	Material Description	Graphic Log	Elev. Depth (ft.)	Well Construction Detail
SO		9.0	GC	SILTY CLAY: Brown, Hard, Dry.		4573.8	
			GC	WHITE ASH or TUFF with GRAVEL: Dry.		20	
			CL	SILTY CLAY: Brown, Hard, Dry.		4568.8	
SO		9.0	GC	GRAVELLY CLAY: Poorly Sorted, Dry, Gray to Tan Gray, Hard.		25	
			SM	SILTY SAND: Brown, Moderately Sorted.		4563.8	
SO		1.5	GC	CLAYEY and SILTY GRAVEL: Poorly Sorted, Brown to Gray, Hard, Dry, Clay Matrix.		30	
			SP	GRAVELLY SAND: Poorly Sorted to Moderately Sorted, Coarse Grained, Brown, 65-85% Sand, 15-35% Gravel.		4558.8	
SO		5.0	GC	CLAYEY SAND and GRAVEL: Poorly Sorted, Cobbles, Dry, Hard, Brown to Rust Brown, Cemented.		35	
			GC			4553.8	
SO		1.5	SM	SILTY SAND: Brown to Rust Brown, Dry, Dense, Moderately Cemented.		40	
			GP	SANDY GRAVEL: Buff Gray, Weakly Endurated, Silty Sand Matrix, Dry, Dense, 55% Gravel, Rounded, 45% Fine Grained Sand.		4548.8	
SO		3.0				45	
						4543.8	
SO		1.5				50	
						4538.8	
SO		0.0				55	
						4533.8	

Volclay Grout Seal:

Centralizer

4566.8
27.04555.8
38.5

CTM MW CTM2001.GPJ CDM CORP GDT 9/7/01

CDM7025 Longley Lane, Ste 20
Reno, NV 89511**MONITORING
WELL DETAIL**
CTM-40S**Client:** Washoe County Dept. of Water Resources**Project Name:** Central Truckee Meadows Remediation Dist.**Project Location:** Reno, Nevada**Project Number:** 8432-30734

Sample Type	Sample Identification	Field Instrument Reading (ppm)	Stratum Designation	Material Description	Graphic Log	Elev. Depth (ft.)	Well Construction Detail
SO		0.0	GP			4533.8 60	
SO		0.0	SM	SILTY SAND: Ochre Brown, Silty Sand with Gravel; 10% Gravel, 70% Sand, 20% Silt, Moist, Loose to Weakly Endurated.		4528.8 65	
SO		1.5	GM	SANDY SILTY GRAVEL: Tan Brown, Gravel with Silt Matrix, 65% Gravel, 5% Cobbles, 10% Sand, 20% Silt, Dry, Firm Matrix with Low Strength.		4523.8 70	
SO		1.5				4518.8 75	
SO		0.0				4513.8 80	
SO		1.5				4508.8 85	
SO		1.5	ML	CLAYEY SILT: Gray Brown to Dusky Brown, Clayey Silt with Gravel, Damp, Very Stiff, Orange Iron Staining on Gravel, 68% Fine Grained Silt, 15% Sand, 10% Small Gravel, 7% Clay.		4503.8 90	
SO		0.0	ML	SANDY CLAYEY SILT: Brown, Moderate to Low Plasticity, Friable, Stiff, Damp/Moist, 80% Fine Grained Silt/Clay, 20% Fine Grained Sand and Gravel.		4498.8 95	
						4493.8	

CTM-MW-CTM2001.GPJ CDM_CORP.GDT 9/7/01



7025 Longley Lane, Ste 20
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MONITORING WELL DETAIL

CTM-40S

Client: Washoe County Dept. of Water Resources

Project Name: Central Truckee Meadows Remediation Dist.

Project Location: Reno, Nevada

Project Number: 8432-30734

Sample Type	Sample Identification	Field Instrument Reading (ppm)	Stratum Designation	Material Description	Graphic Log	Elev. Depth (ft.)	Well Construction Detail
SO		0.0	CL	SILTY CLAY: Medium Plasticity, Soft, Damp.		4493.8 100	
			SW	SAND: Loose, Dark Brown, Damp.			
			ML-CH	CLAYEY SILT or SILTY CLAY: Mottled Gray Brown to Ochre Brown, Soft to Firm, Medium to High Plasticity.		4488.8 105	
SO	CTM-SL-MW40S-105-060501	0.0					
			GM	SILTY SANDY GRAVEL: Tan Brown, Loose, Moist, Endured/Cemented Silty Matrix, 45% Gravel, 35% Sand, 20% Silt.		4483.8 110	20x40 Fine Sand. 10x20 Colorado Silica Sand
SO		0.0	GL-CH	GRAVELLY SILTY CLAY: Brown, Stiff, Moist, Medium Plasticity to High Plasticity, 85% Silty Clay, 15% Sand and Gravel.		4478.8 115	
SO		0.0	SW	SAND: Tan Brown, Fine Sand, Loose, Damp.		4473.8 120	Sch. 40 PVC, 2-inch diam. Screen with 0.020-inch Slots
			DMH	DIATOMACEOUS: White Diatomaceous Earth, Gritty, Damp, Firm, Possibly an Ash Rather than Diatomaceous.		4468.8 125	
GW	CTM-GW-MW40S-128.5-060501		CH	CLAY: Light Brown to Tan Brown, Damp, Very Stiff, Moderate to High Plasticity.			
			GP	SANDY GRAVEL: Tan Brown, Wet, Loose, 50% Gravel, 45% Sand, 5% Silt.		4463.8 130	
			ML	SILT: Tan Brown, Silt to Fine Grained Sand, Damp, Firm to Friable, Low Plasticity.			
SO		0.0	SP	GRAVELLY SAND: Dark Gray Brown, Wet, Loose to Dense, 60% Sand, 25% Gravel, 15% Silt.		4458.8 135	
SS	CTM-SL-MW40S-136.5-060501						
SO	CTM-SL-MW40S-137-060501					4453.8	

CTM-MW-CTM2001.GPJ-CDM-CORP.GDT-9/7/01

CAMP DRESSER & McKEE

CDM7025 Longley Lane, Ste 20
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Sheet 5 of 5

**MONITORING
WELL DETAIL
CTM-40S****Client:** Washoe County Dept. of Water Resources**Project Name:** Central Truckee Meadows Remediation Dist.**Project Location:** Reno, Nevada**Project Number:** 8432-30734

Sample Type	Sample Identification	Field Instrument Reading (ppm)	Stratum Designation	Material Description	Graphic Log	Elev. Depth (ft.)	Well Construction Detail
SO		0.0	GM	SILTY GRAVEL: Dark Gray Brown, Damp to Wet, Stiff, Fairly Tight, 60% Gravel, 10% Sand, 30% Silt.		4453.8 140	
SO		0.0		No Sample Return.		4448.8 145	
SO		0.0	SW	SAND: Tan Brown, Loose Wet, 97% Medium Grained Sand, 3% Silt.		4443.8 150	
			GP	SANDY GRAVEL: Tan Brown, Loose, Wet, 60% Gravel, 30% Sand, 10% Silt.		4438.8 155	
SO		0.0				4433.8 160	
						4428.8 165	
						4423.8 170	
						4418.8 175	
						4413.8	

CTM MW CTM2001.GPJ CDM_CORP.GDT 9/7/01

Exhibit 4



United States Department of the Interior

U. S. GEOLOGICAL SURVEY
NEVADA WATER SCIENCE CENTER
2730 N. Deer Run Road
Carson City, Nevada 89701
Phone: 775-887-7600; Fax: 775-887-7629
Website: <http://nevada.usgs.gov/>

August 13, 2014

Tim Wilson
Manager 2, Professional Engineer
Nevada Division of Water Resources
901 South Stewart Street, Suite 2002
Carson City, Nevada 89701

RE: USGS/Washoe County Department of Water Resources well ownership transfer

Dear Mr. Wilson:

On behalf of the U.S. Geological Survey (USGS), Nevada Water Science Center, I would like to request an ownership transfer for a monitoring well (CTM40S) that has previously been utilized by Washoe County. The USGS intends to utilize CTM40S as a water level and water quality monitoring location as part of the USGS National Water Quality Assessment Program (NAWQA) urban groundwater monitoring network. There is no NDWR driller's log number for this well, but the lithologic and construction log is attached and its location is shown in figure 1.

Monitoring well CTM40S has been one of 30 monitoring wells sampled as part of USGS NAWQA program urban trends study that began in 2002. The NAWQA program provides nationally consistent data and information on the quality of the Nation's water. Studies such as this provide information on current water-quality conditions, a baseline for trend evaluation, and an understanding of what factors affect water quality. Groundwater studies for the NAWQA program provide information on the quality of water in shallow monitoring wells, domestic-supply wells, and public-supply wells. The data collected from CTM40S well will remain part of the larger urban groundwater trends study that began in 2002 to assess trends within the Basin and Range basin-fill aquifers.

The USGS will be responsible for the proper abandonment of this well when it becomes no longer useful as monitoring site. The applications for waiver and affidavits of abandonment for this well are attached. If you have any questions or concerns, please contact me.

Sincerely,

Jena Huntington, hydrologist
USGS Nevada Water Science Center
jmhunt@usgs.gov, 775-887-7692

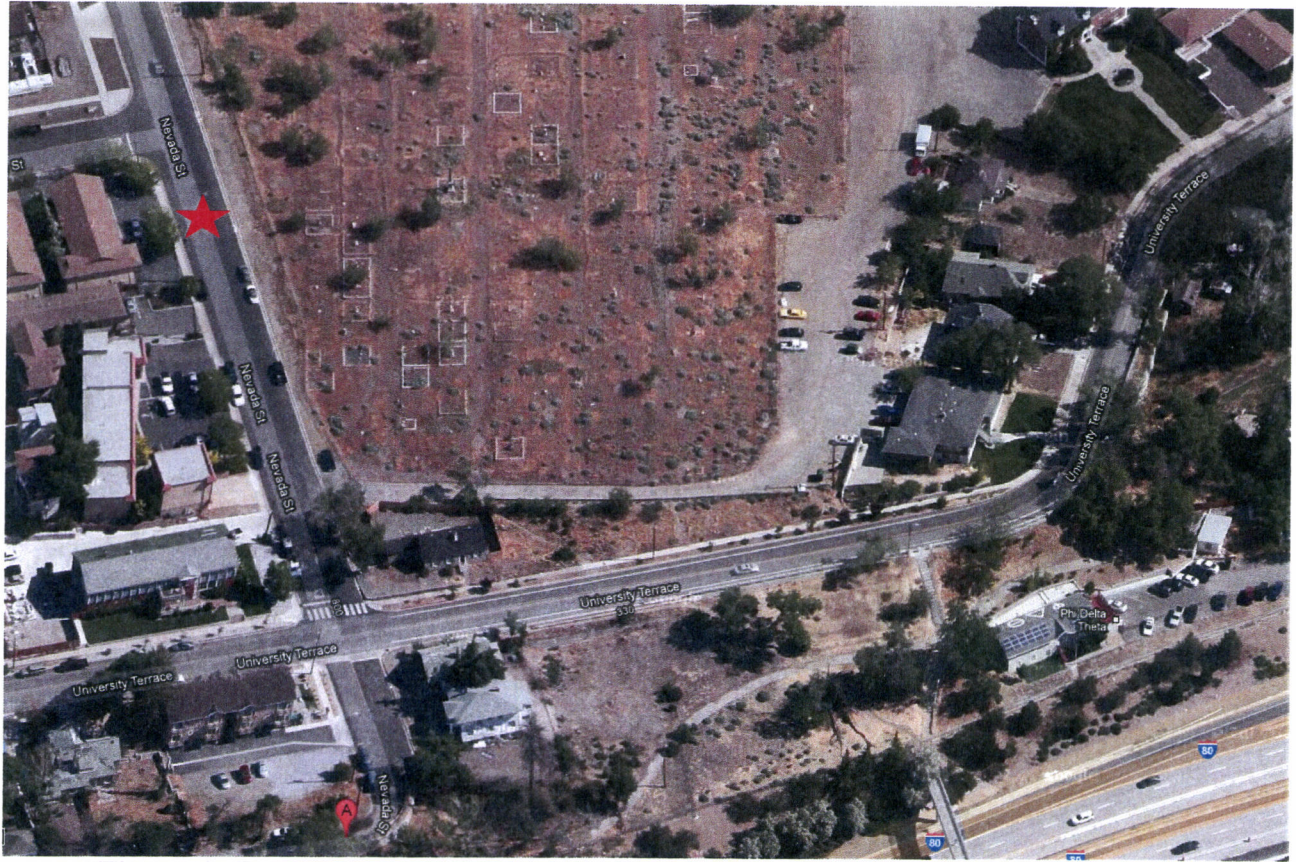


Figure 1. Location of monitoring well CTM40S proposed for transfer.